## SOLAR ROBOT

The idea, simply, is to accumulate charge on a capacitor using a solar cell as power source, then to use a LED and transistors as switches to motivate the capacitor discharge through a motor.

## SOLAR ROBOT CIRCUIT





The cap charges. At some point, the voltage across the LED voltage hits .6 volts and current flows through the LED circuit. Current will also flow from the base of the pnp transistor leaving that base electrically negative (relative to its collector). This will turn the pnp transistor "on."



The cap charges. When the LED voltage hits .6 volts, current will flow through the LED circuit. Current will also flow from the base of the pnp transistor leaving that base electrically negative (relative to its collector). This will turn the pnp transistor "on."

## SOLAR ROBOT CIRCUIT

